

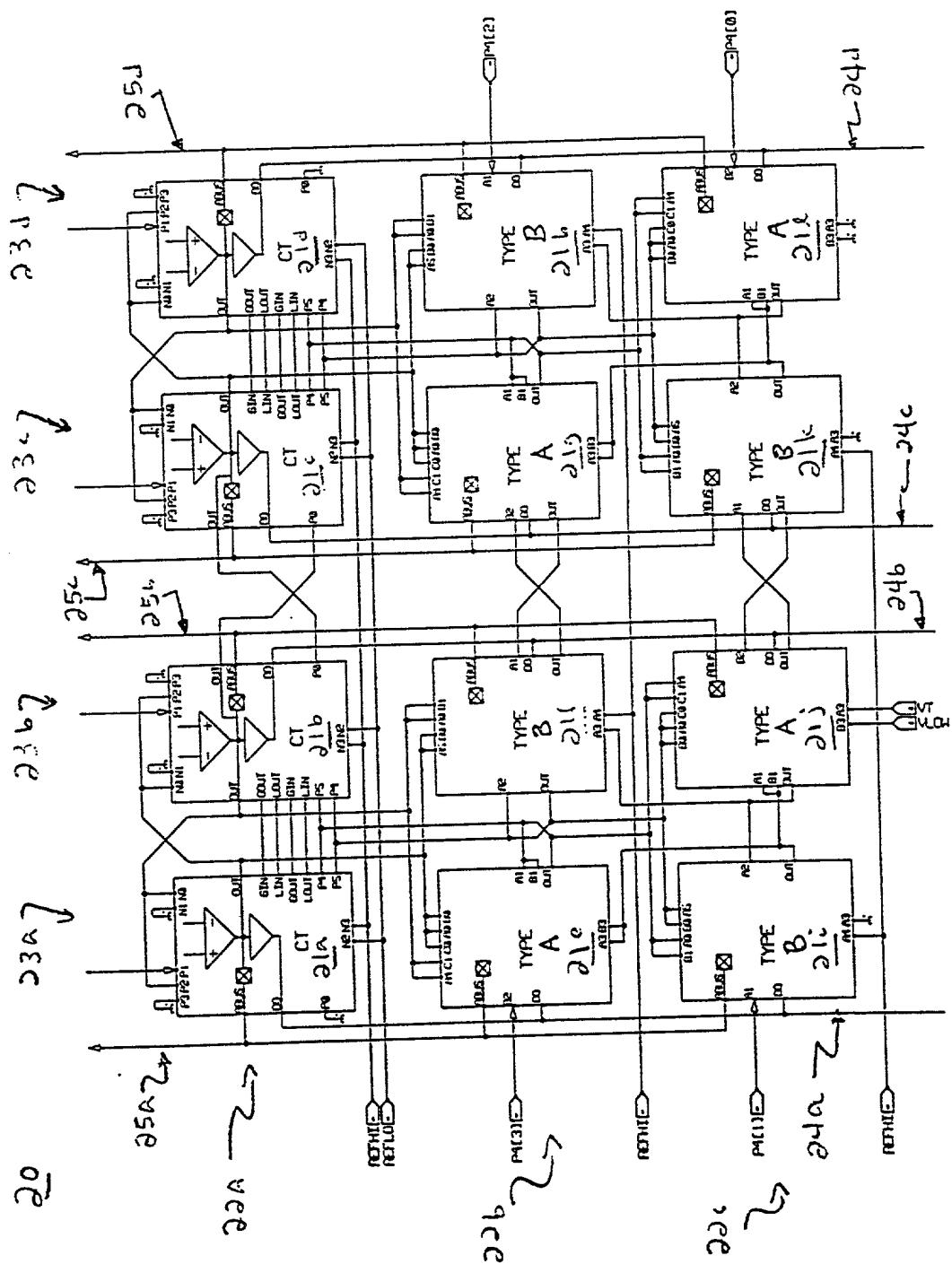
Figure 1

20

23a Acolumn 0	23b Acolumn 1	23c Acolumn 2	23d Acolumn 3
22a → ACA00 21a	ACA01 21b	ACA02 21c	ACA03 21d
22b → ASA10 21e	ASB11 21f	ASA12 21g	ASB13 21h
22c → ASB20 21i	ASA21 21j	ASB22 21k	ASA23 21l

Figure 2

Figure 3



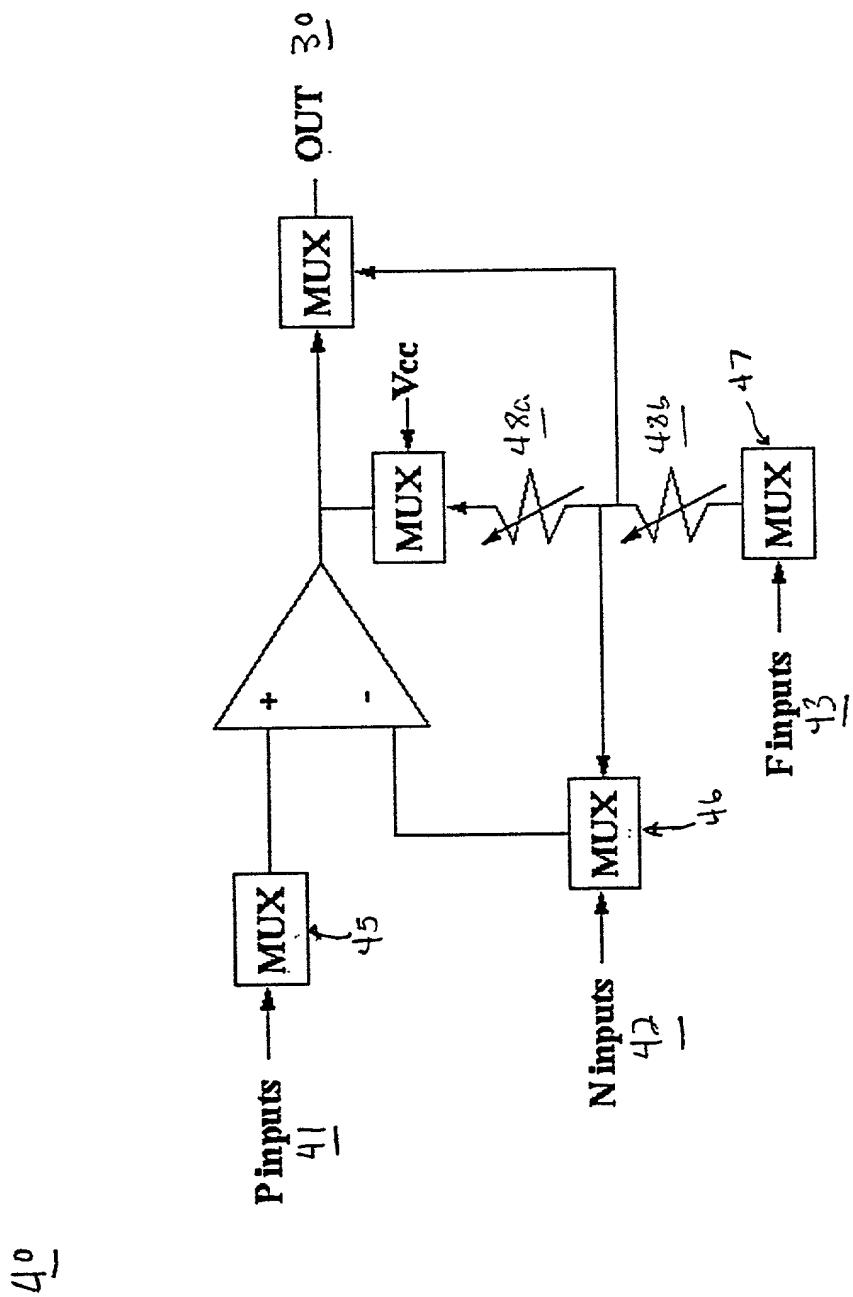


Figure 4A

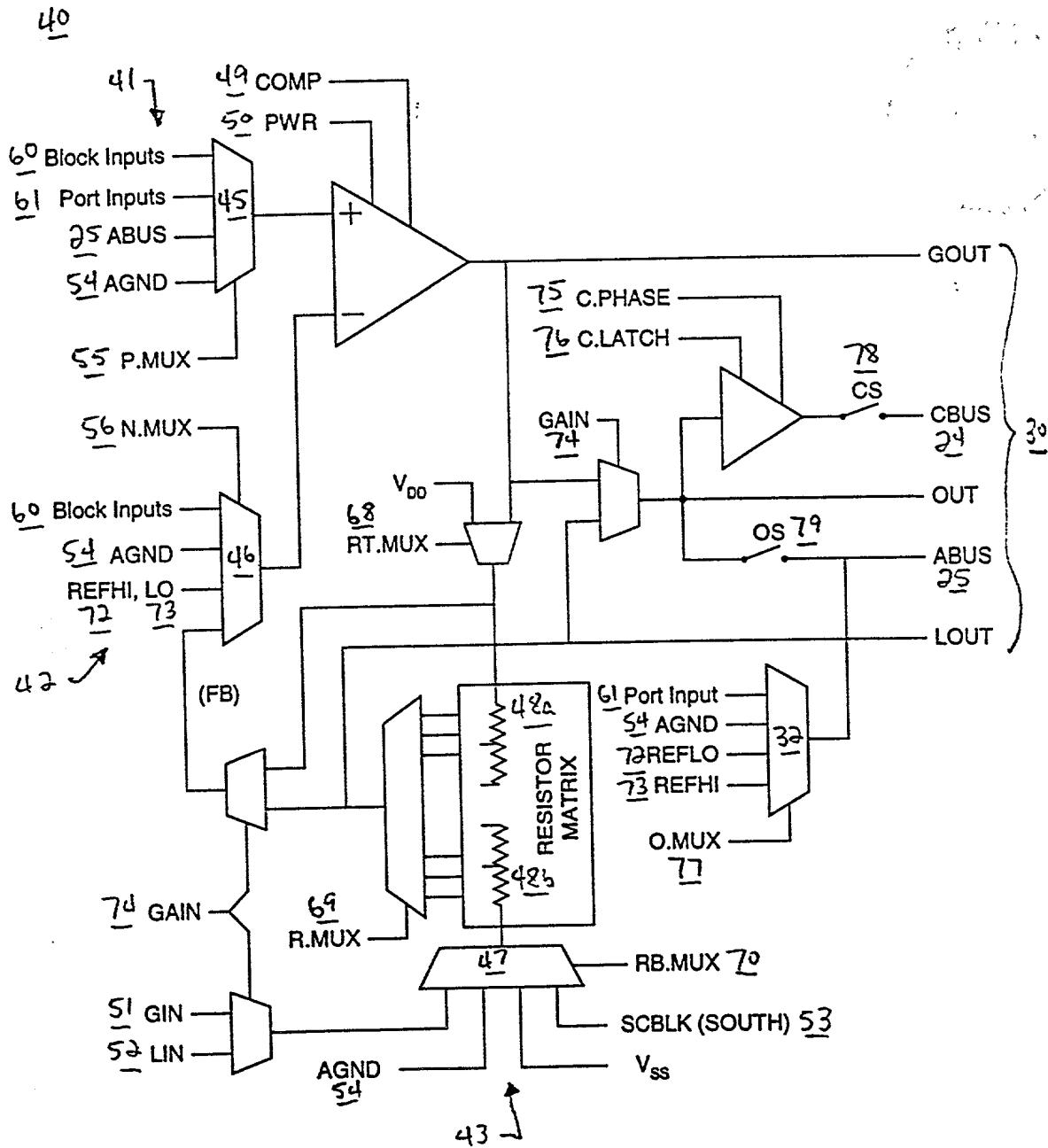


Figure 4B

SCANNED, # 14  
T 0 2 2 2 T T 0 2 2 2 0 0 0 0

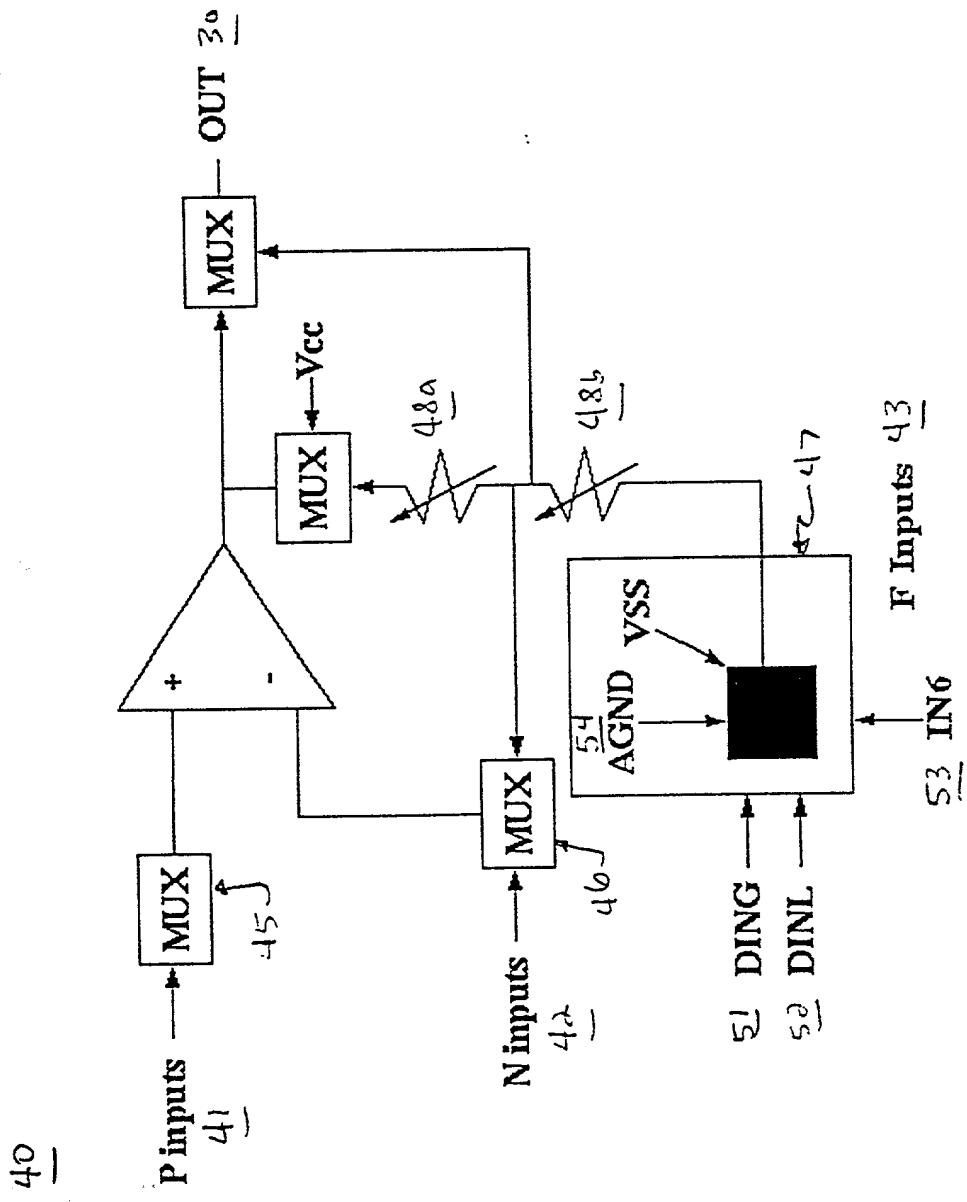


Figure 5

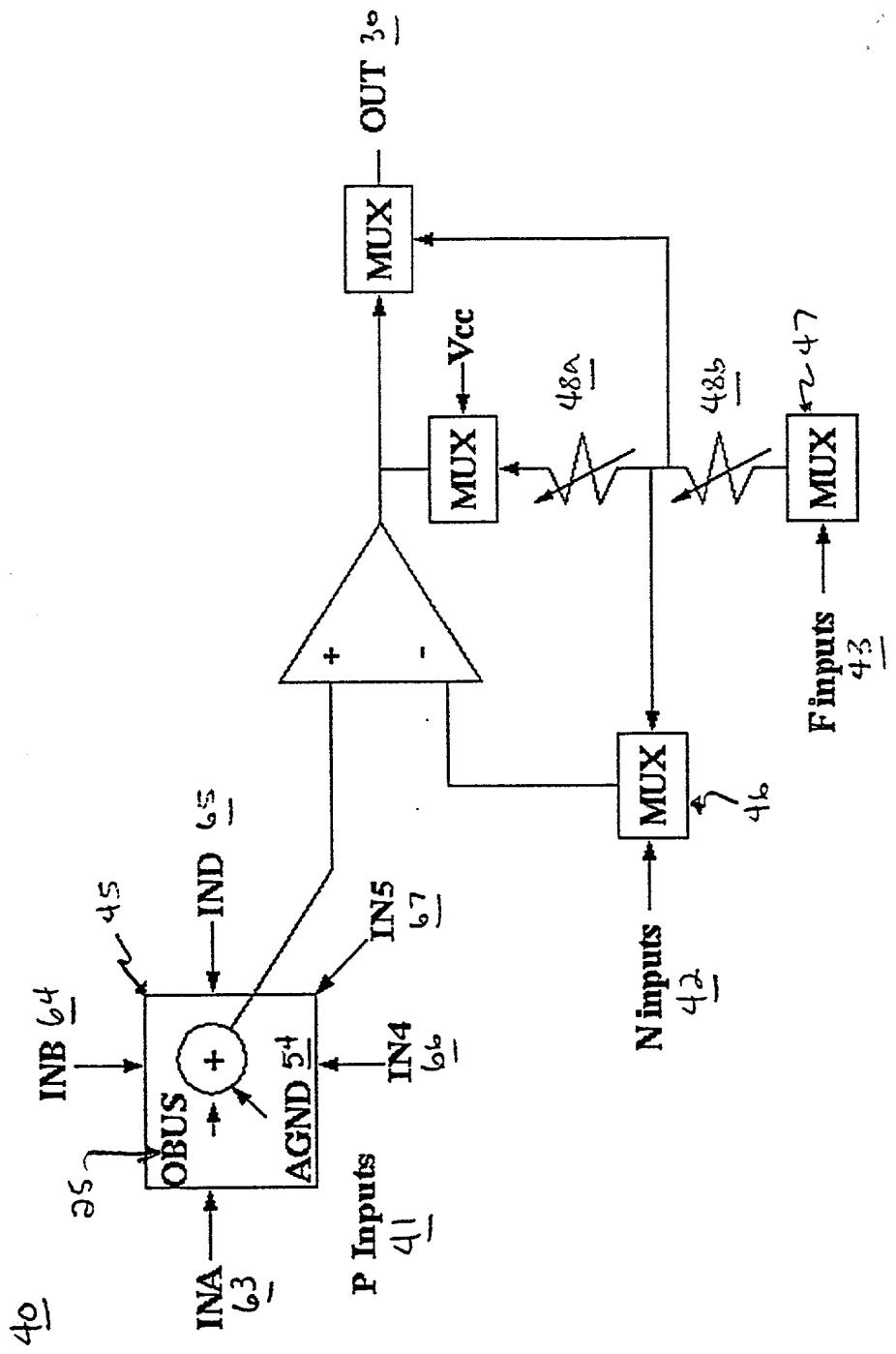


Figure 6

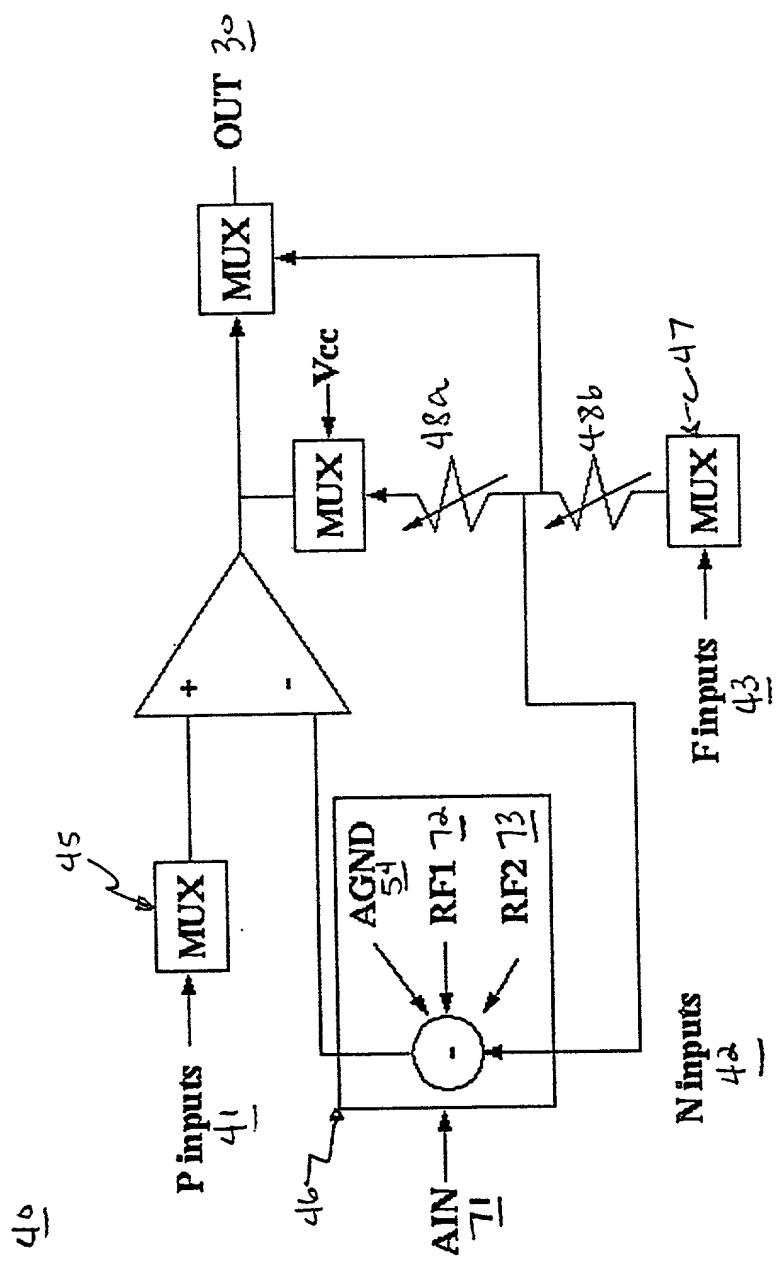


Figure 7

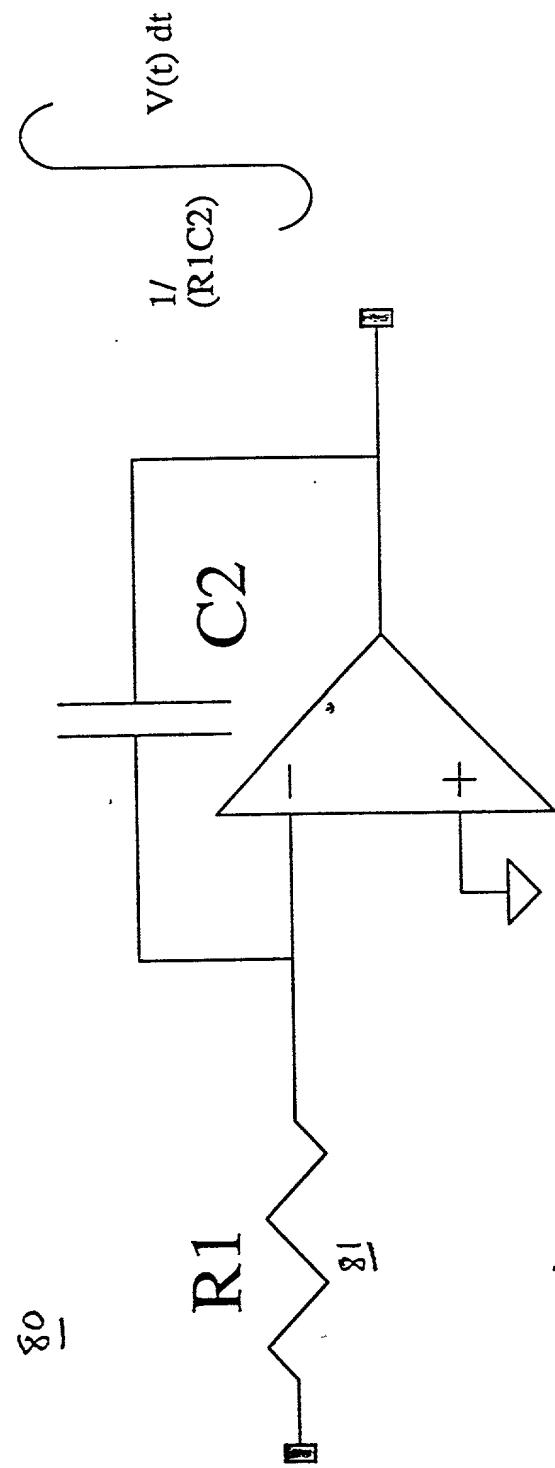


Figure 8A

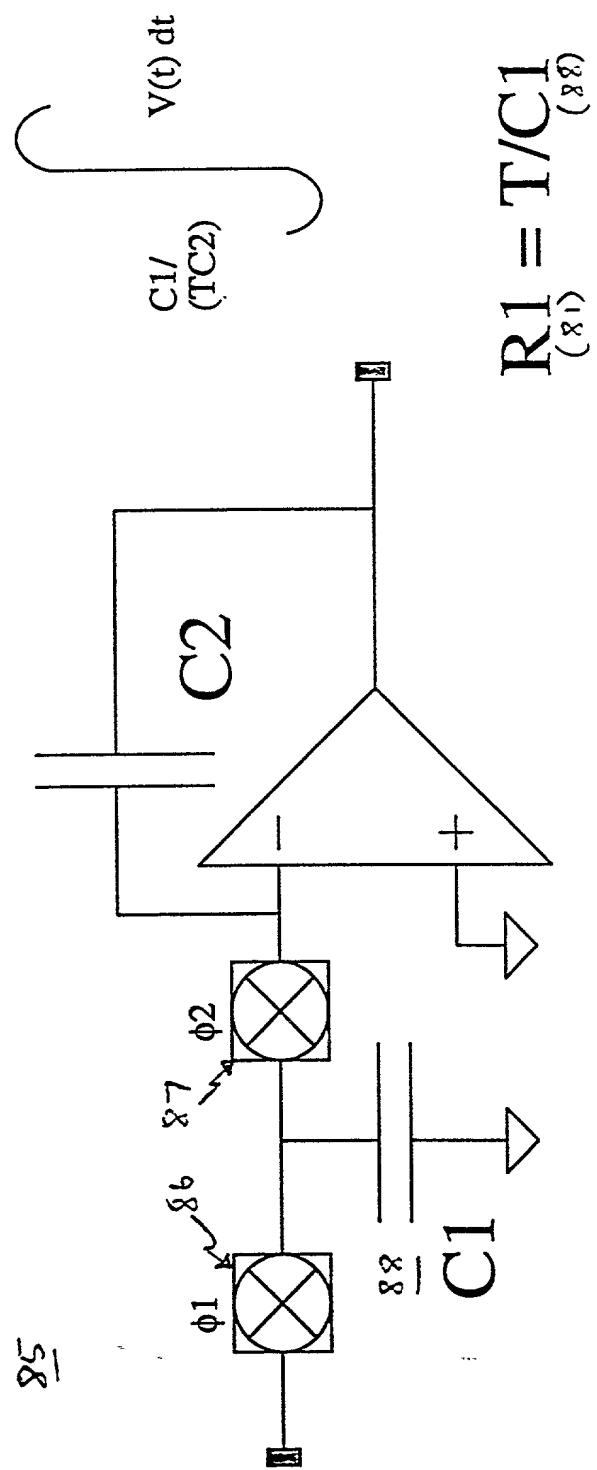


Figure 8B

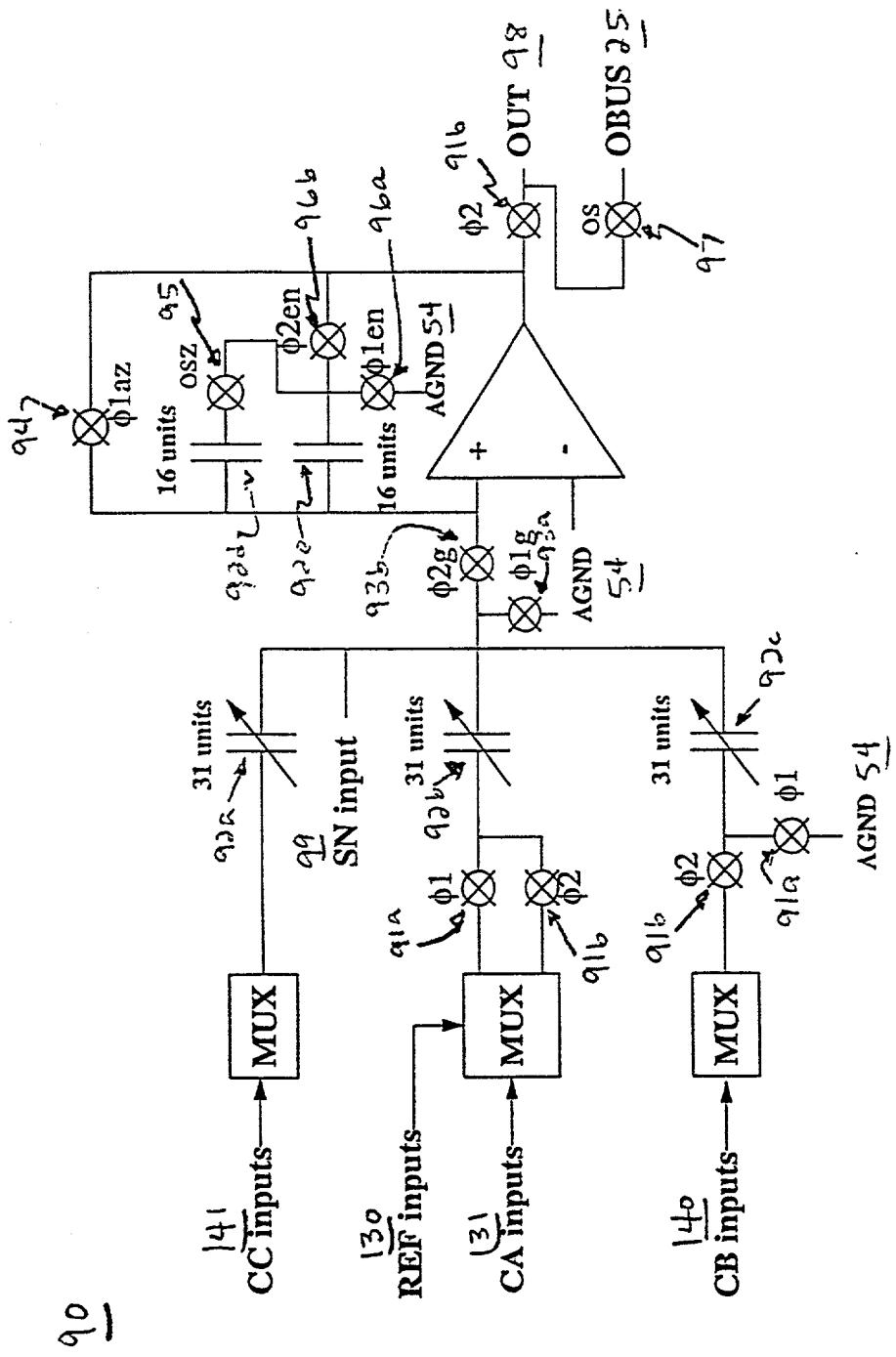


Figure 9A

90a

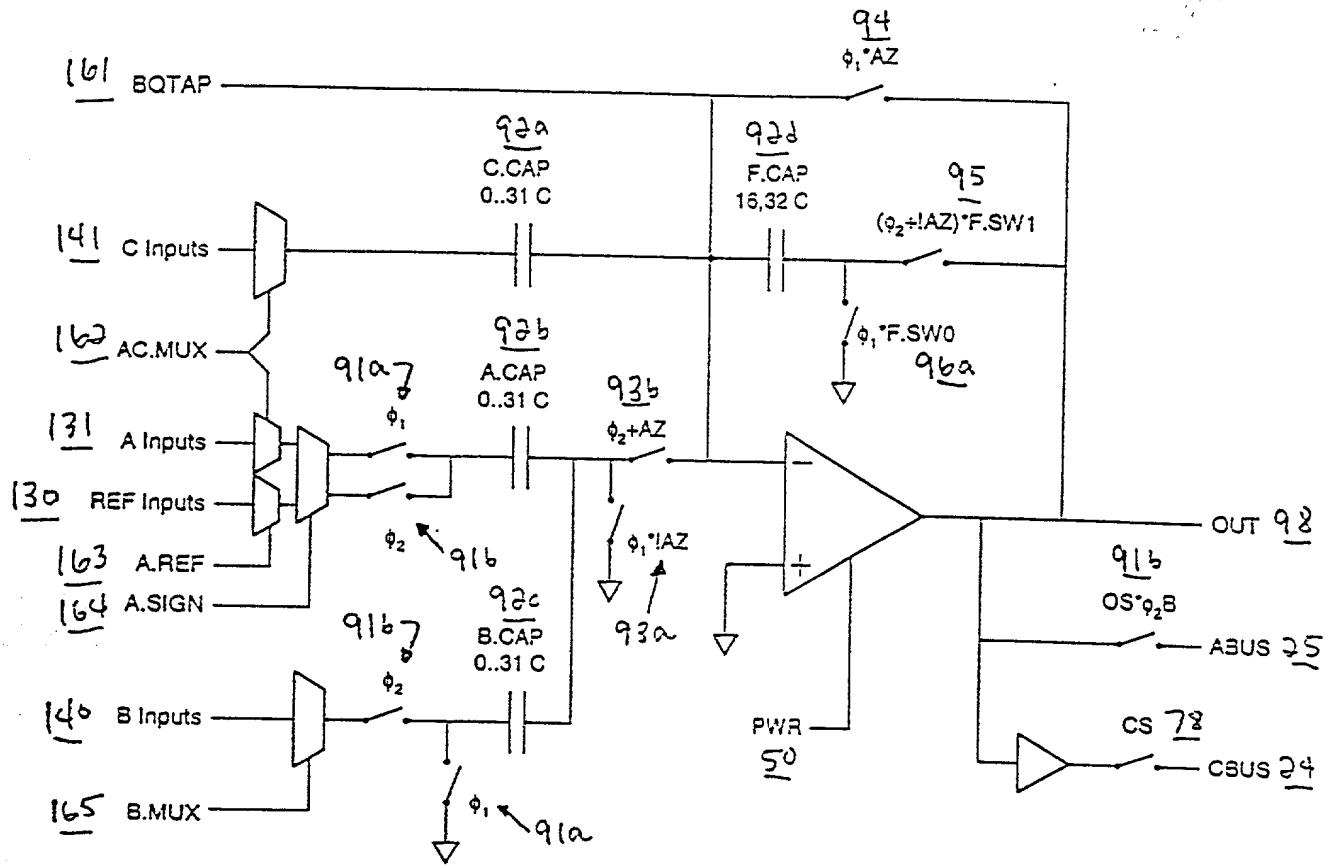


Figure 9B

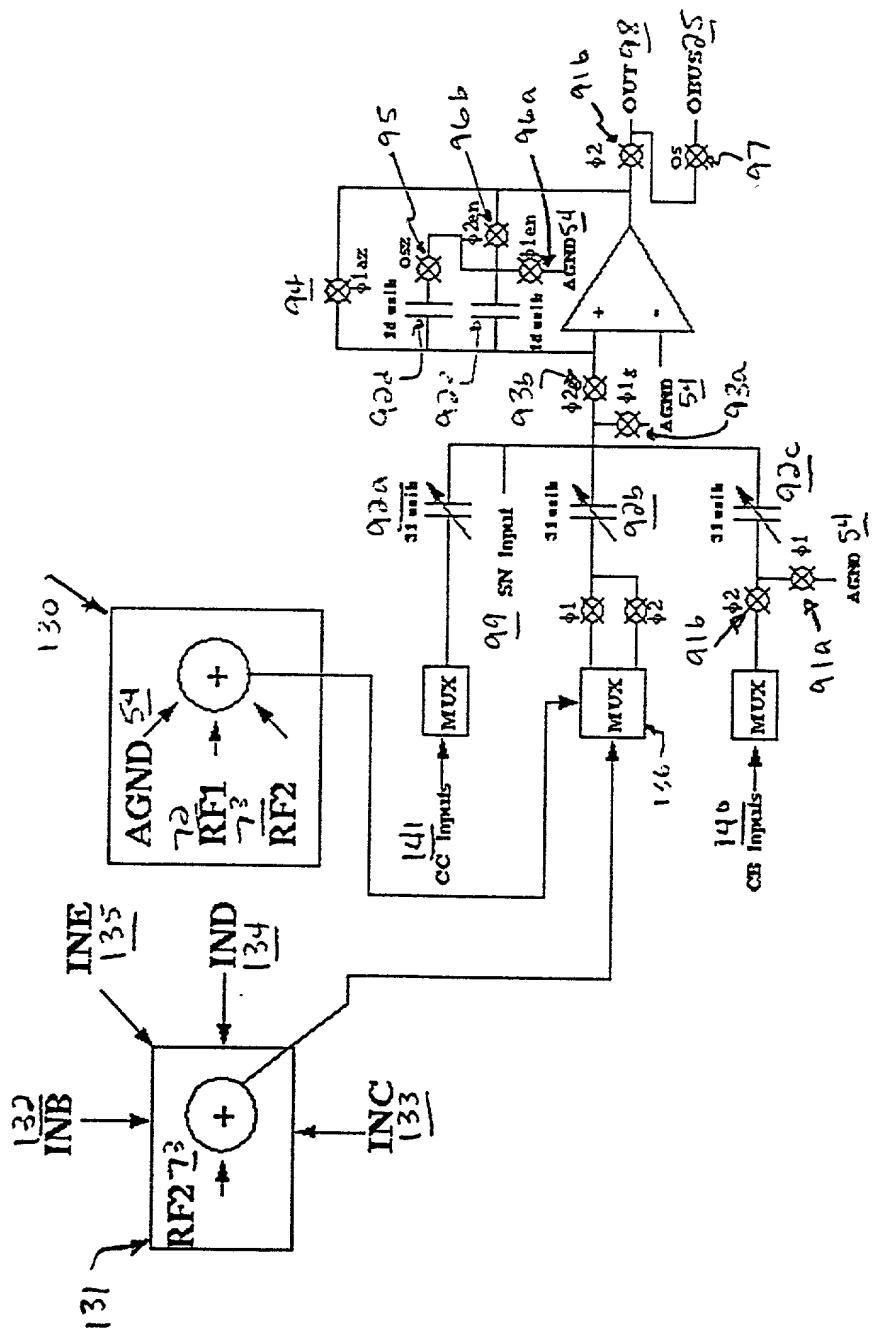


Figure 10

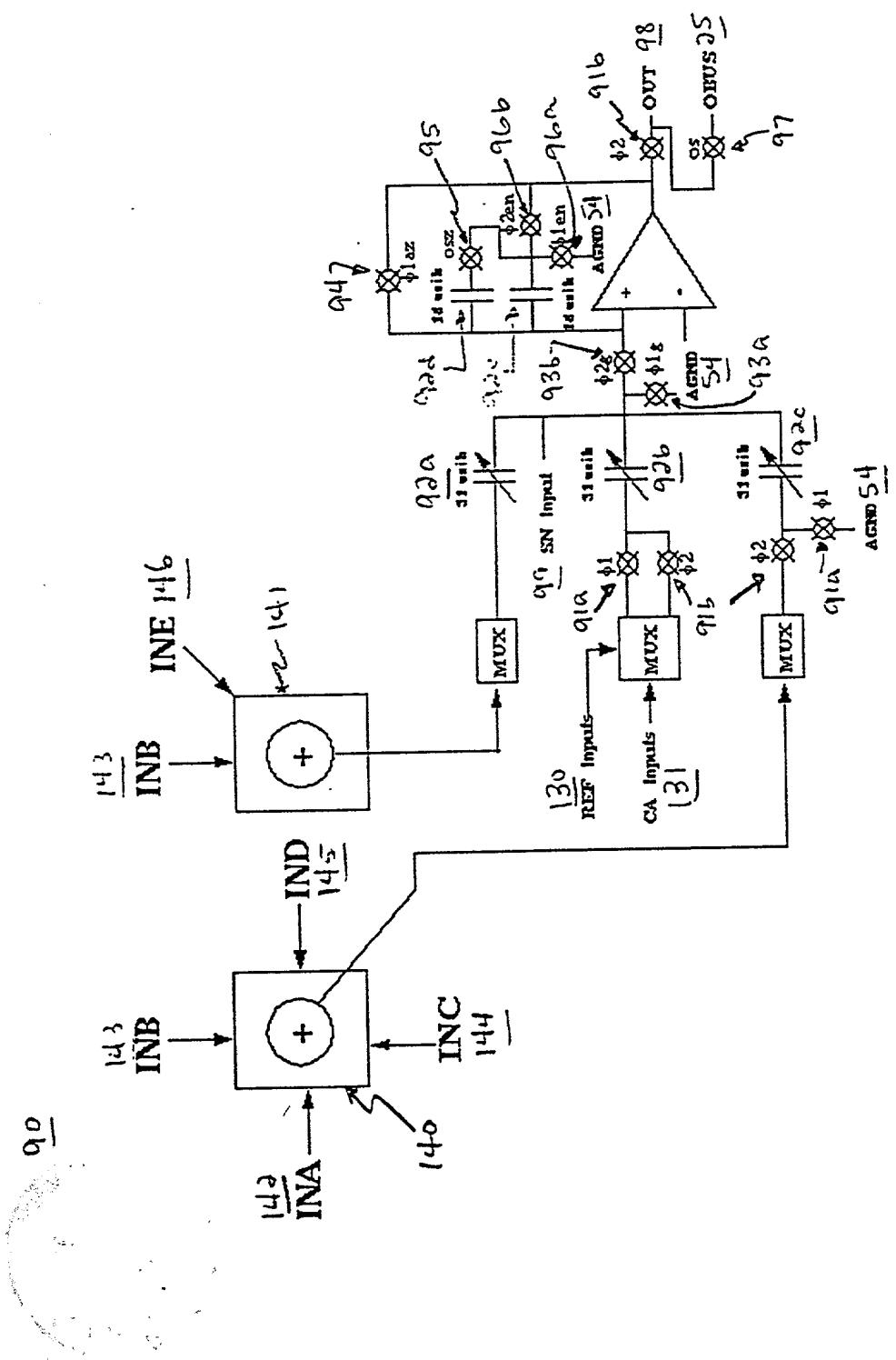


Figure 11

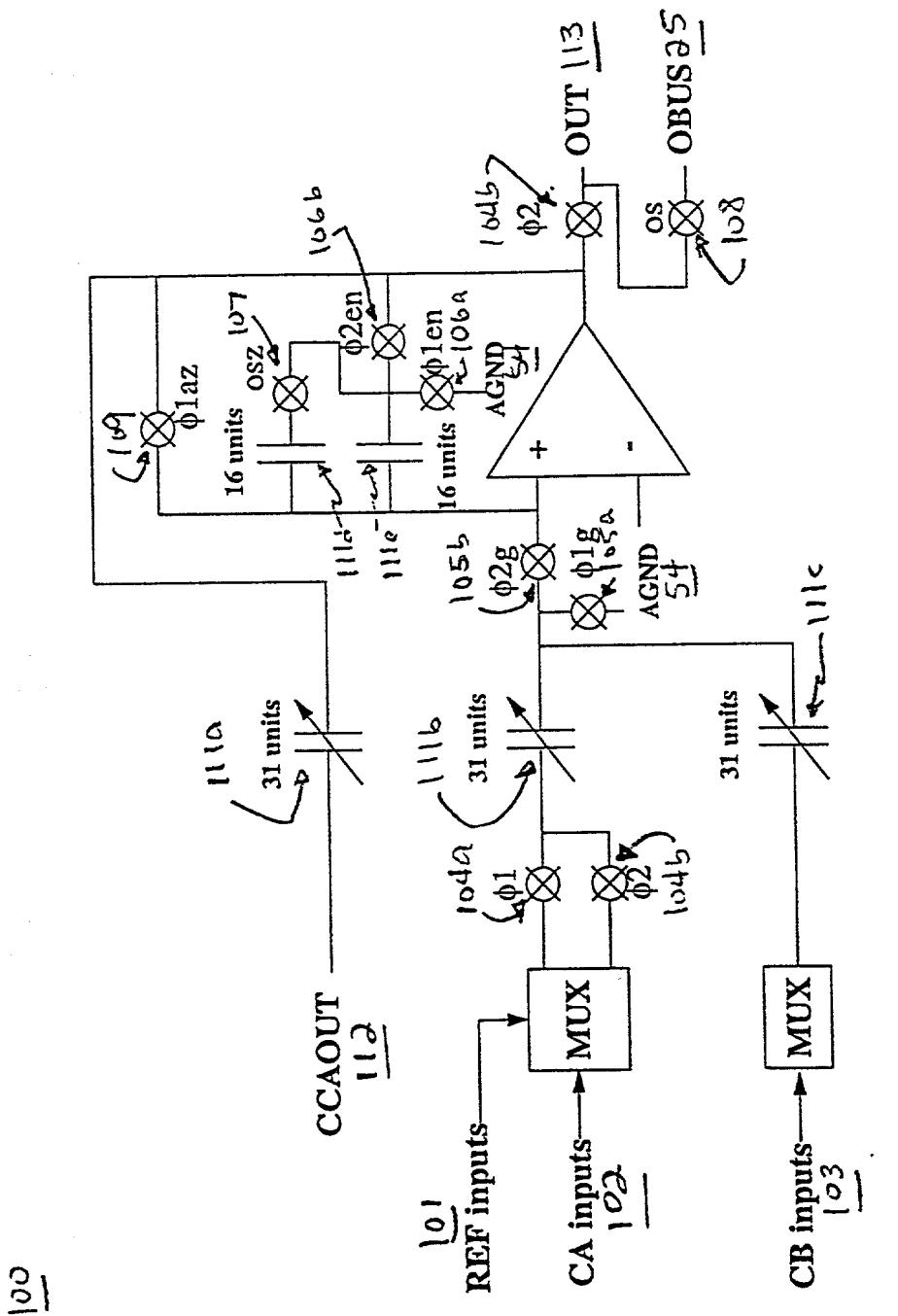


Figure 12A

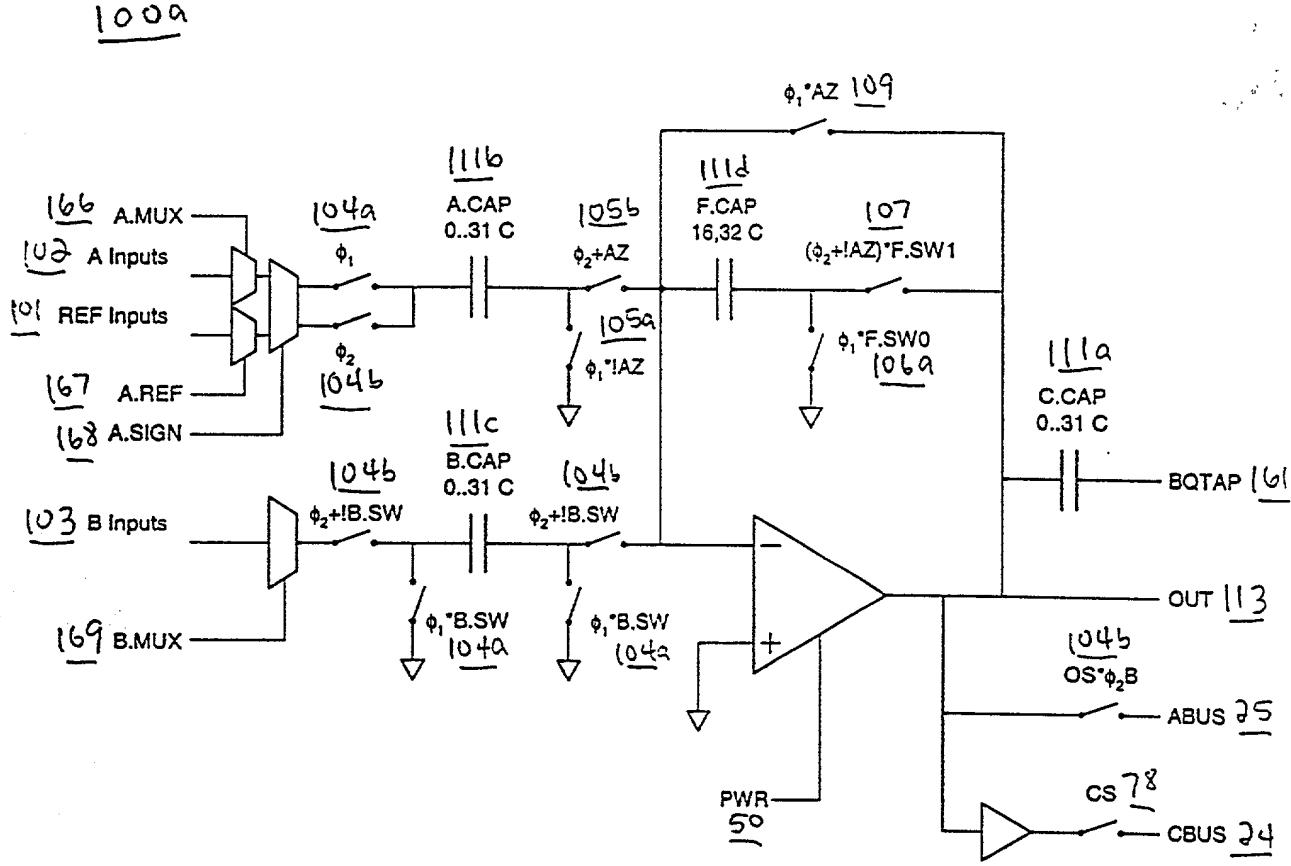


Figure 12B

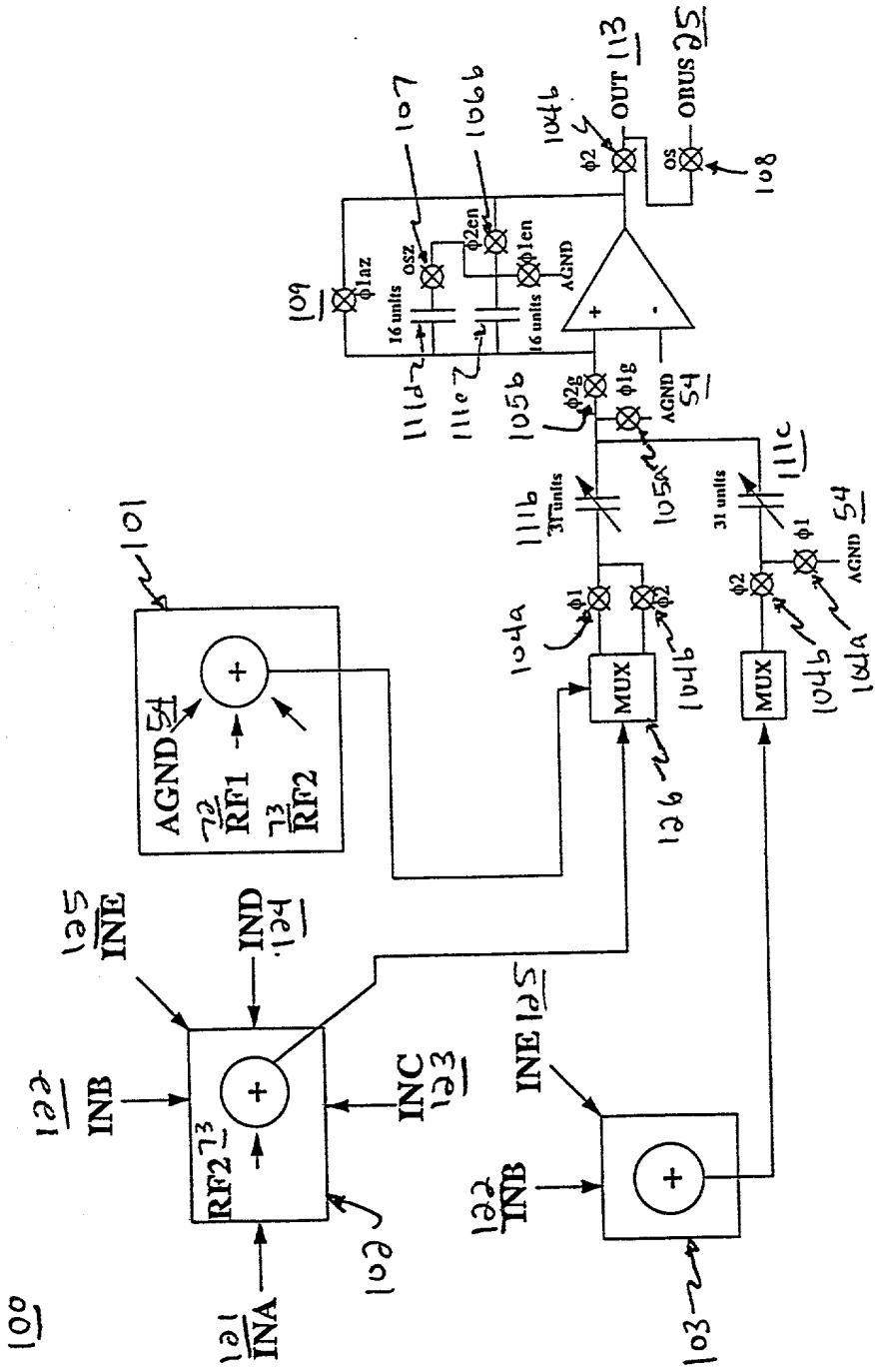


Figure 13

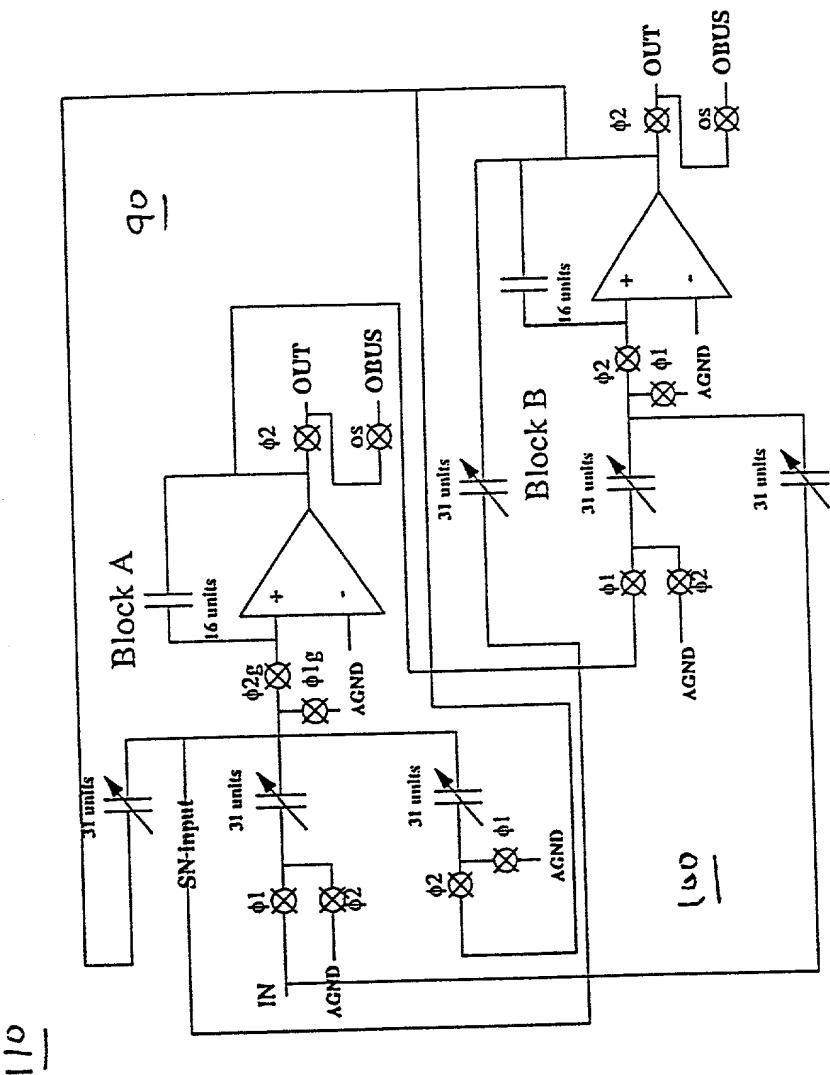


Figure 14A

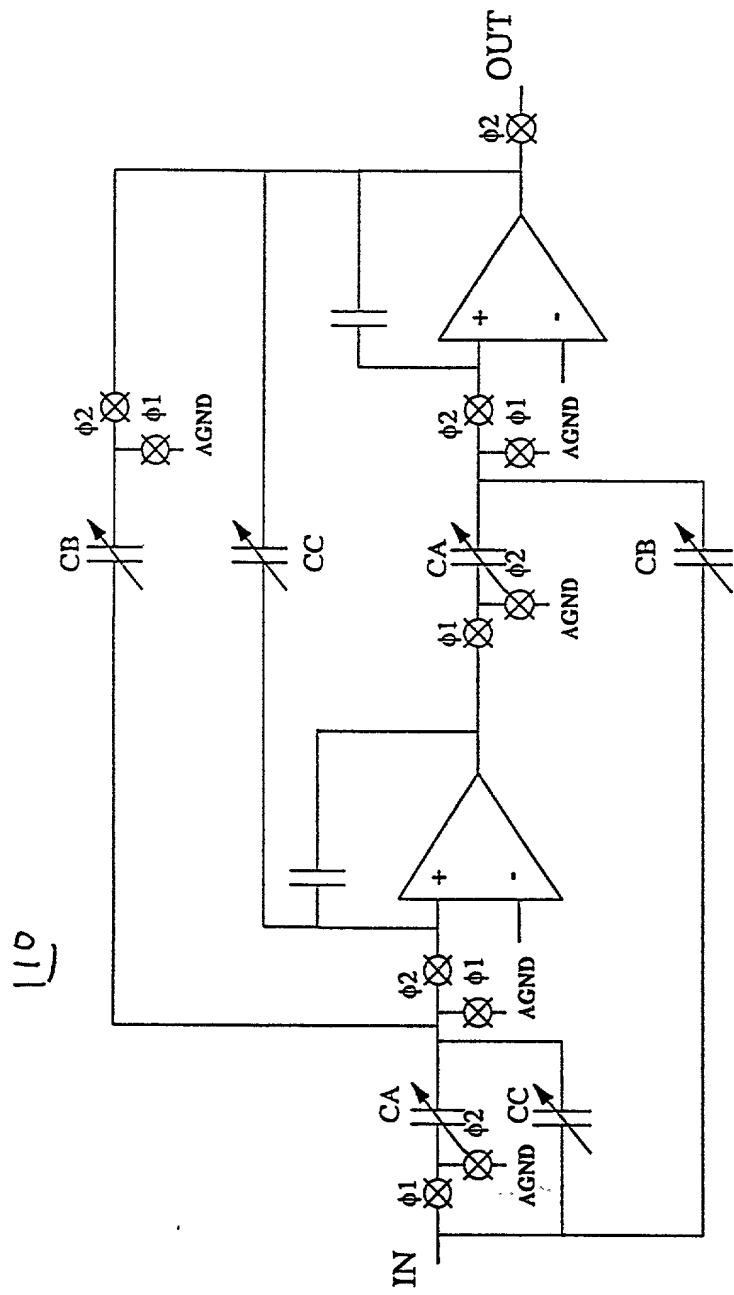


Figure 14B

1502

Reg Name	Addr	Reg Name	Addr	Reg Name	Addr	Reg Name	Addr
PRT0DR	000	reserved	040	ASA10CR0	080	reserved	0C0
PRT0IE	001	reserved	041	ASA10CR1	081	reserved	0C1
PRT0GS	002	reserved	042	ASA10CR2	082	reserved	0C2
reserved	003	reserved	043	ASA10CR3	083	reserved	0C3
PRT1DR	004	reserved	044	ASB11CR0	084	reserved	0C4
PRT1IE	005	reserved	045	ASB11CR1	085	reserved	0C5
PRT1GS	006	reserved	046	ASB11CR2	086	reserved	0C6
reserved	007	reserved	047	ASB11CR3	087	reserved	0C7
PRT2DR	008	reserved	048	ASA12CR0	088	reserved	0C8
PRT2IE	009	reserved	049	ASA12CR1	089	reserved	0C9
PRT2GS	00A	reserved	04A	ASA12CR2	08A	reserved	0CA
reserved	00B	reserved	04B	ASA12CR3	08B	reserved	0CB
PRT3DR	00C	reserved	04C	ASB13CR0	08C	reserved	0CC
PRT3IE	00D	reserved	04D	ASB13CR1	08D	reserved	0CD
PRT3GS	00E	reserved	04E	ASB13CR2	08E	reserved	0CE
reserved	00F	reserved	04F	ASB13CR3	08F	reserved	0CF
PRT4DR	010	reserved	050	ASB20CR0	090	reserved	0D0
PRT4IE	011	reserved	051	ASB20CR1	091	reserved	0D1
PRT4GS	012	reserved	052	ASB20CR2	092	reserved	0D2
reserved	013	reserved	053	ASB20CR3	093	reserved	0D3
PRT5DR	014	reserved	054	ASA21CR0	094	reserved	0D4
PRT5IE	015	reserved	055	ASA21CR1	095	reserved	0D5
PRT5GS	016	reserved	056	ASA21CR2	096	reserved	0D6
reserved	017	reserved	057	ASA21CR3	097	reserved	0D7
reserved	018	reserved	058	ASB22CR0	098	reserved	0D8
reserved	019	reserved	059	ASB22CR1	099	reserved	0D9
reserved	01A	reserved	06A	ASB22CR2	09A	reserved	0DA
reserved	01B	reserved	06B	ASB22CR3	09B	reserved	0DB
reserved	01C	reserved	06C	ASA23CR0	09C	reserved	0DC
reserved	01D	reserved	06D	ASA23CR1	09D	reserved	0DD
reserved	01E	reserved	06E	ASA23CR2	09E	reserved	0DE
reserved	01F	reserved	06F	ASA23CR3	09F	reserved	0DF
DBA000DR0	020	AMX IN	060	reserved	0A0	INT MSK0	0E0
DBA000DR1	021	reserved	061	reserved	0A1	INT MSK1	0E1
DBA000DR2	022	reserved	062	reserved	0A2	INT VC	0E2
DBA000CR0	023	ARF CR	063	reserved	0A3	RES WDT	0E3
DBA010DR0	024	CMP CR	064	reserved	0A4	DEC DH or	0E4
DBA010DR1	025	ASY CR	065	reserved	0A5	DEC DL	0E5
DBA010DR2	026	reserved	066	reserved	0A6	DEC CR	0E6
DBA010CR0	027	reserved	067	reserved	0A7	reserved	0E7
DCA020DR0	028	reserved	068	reserved	0A8	MUL X	0E8
DCA020DR1	029	reserved	069	reserved	0A9	MUL Y	0E9
DCA020DR2	02A	reserved	06A	reserved	0AA	MUL DH	0EA
DCA020CR0	02B	reserved	06B	reserved	0AB	MUL DL	0EB
DCA030DR0	02C	reserved	06C	reserved	0AC	ACC DR0 or	0EC
DCA030DR1	02D	reserved	06D	reserved	0AD	ACC DR1 or	0ED
DCA030DR2	02E	reserved	06E	reserved	0AE	ACC DR2 or	0EE
DCA030CR0	02F	reserved	06F	reserved	0AF	ACC DR3 or	0EF
DBA040DR0	030	reserved	070	reserved	0B0	reserved	0F0
DBA040DR1	031	ACA00CR0	071	reserved	0B1	reserved	0F1
DBA040DR2	032	ACA00CR1	072	reserved	0B2	reserved	0F2
DBA040CR0	033	ACA00CR2	073	reserved	0B3	reserved	0F3
DBA050DR0	034	reserved	074	reserved	0B4	reserved	0F4
DBA050DR1	035	ACA01CR0	075	reserved	0B5	reserved	0F5
DBA050DR2	036	ACA01CR1	076	reserved	0B6	reserved	0F6
DBA050CR0	037	ACA01CR2	077	reserved	0B7	reserved	0F7
DCA060DR0	038	reserved	078	reserved	0B8	reserved	0F8
DCA060DR1	039	ACA02CR0	079	reserved	0B9	reserved	0F9
DCA060DR2	03A	ACA02CR1	07A	reserved	0BA	reserved	0FA
DCA060CR0	03B	ACA02CR2	07B	reserved	0BB	reserved	0FB
DCA070DR0	03C	reserved	07C	reserved	0BC	reserved	0FC
DCA070DR1	03D	ACA03CR0	07D	reserved	0BD	reserved	0FD
DCA070DR2	03E	ACA03CR1	07E	reserved	0BE	reserved	0FE
DCA070CR0	03F	ACA03CR2	07F	reserved	0BF	CPU SCR	0FF

Figure 15A

Reg Name	Addr						
PRT00MU	000	reserved	040	ASA10CR0	080	reserved	0C0
PRT00M1	001	reserved	041	ASA10CR1	081	reserved	0C1
PRT01C0	002	reserved	042	ASA10CR2	082	reserved	0C2
PRT01C1	003	reserved	043	ASA10CR3	083	reserved	0C3
PRT10M0	004	reserved	044	AS811CR0	084	reserved	0C4
PRT10M1	005	reserved	045	AS811CR1	085	reserved	0C5
PRT11C0	006	reserved	046	AS811CR2	086	reserved	0C6
PRT11C1	007	reserved	047	AS811CR3	087	reserved	0C7
PRT20M0	008	reserved	048	ASA12CR0	088	reserved	0C8
PRT20M1	009	reserved	049	ASA12CR1	089	reserved	0C9
PRT21C0	00A	reserved	04A	ASA12CR2	08A	reserved	0CA
PRT21C1	00B	reserved	04B	ASA12CR3	08B	reserved	0CB
PRT30M0	00C	reserved	04C	AS813CR0	08C	reserved	0CC
PRT30M1	00D	reserved	04D	AS813CR1	08D	reserved	0CD
PRT31C0	00E	reserved	04E	AS813CR2	08E	reserved	0CE
PRT31C1	00F	reserved	04F	AS813CR3	08F	reserved	0CF
PRT40M0	010	reserved	050	AS820CR0	090	reserved	0D0
PRT40M1	011	reserved	051	AS820CR1	091	reserved	0D1
PRT41C0	012	reserved	052	AS820CR2	092	reserved	0D2
PRT41C1	013	reserved	053	AS820CR3	093	reserved	0D3
PRT50M0	014	reserved	054	ASA21CR0	094	reserved	0D4
PRT50M1	015	reserved	055	ASA21CR1	095	reserved	0D5
PRT51C0	016	reserved	056	ASA21CR2	096	reserved	0D6
PRT51C1	017	reserved	057	ASA21CR3	097	reserved	0D7
reserved	018	reserved	058	AS822CR0	098	reserved	0D8
reserved	019	reserved	059	AS822CR1	099	reserved	0D9
reserved	01A	reserved	05A	AS822CR2	09A	reserved	0DA
reserved	01B	reserved	05B	AS822CR3	09B	reserved	0D8
reserved	01C	reserved	05C	ASA23CR0	09C	reserved	0DC
reserved	01D	reserved	05D	ASA23CR1	09D	reserved	0D0
reserved	01E	reserved	05E	ASA23CR2	09E	reserved	0DE
reserved	01F	reserved	05F	ASA23CR3	09F	reserved	0DF
DBA00FN	020	CLK_CR0	060	reserved	0A0	OSC_CR0	0E0
DBA00IN	021	CLK_CR1	061	reserved	0A1	OSC_CR1	0E1
DBA00OU	022	ABF_CR	062	reserved	0A2	reserved	0E2
reserved	023	AM0_CR	063	reserved	0A3	VLT_CR	0E3
DBA01FN	024	reserved	064	reserved	0A4	reserved	0E4
DBA01IN	025	reserved	065	reserved	0A5	reserved	0E5
DBA01OU	026	reserved	066	reserved	0A6	reserved	0E6
reserved	027	reserved	067	reserved	0A7	reserved	0E7
DCA02FN	028	reserved	068	reserved	0A8	IMO_TR	0E8
DCA02IN	029	reserved	069	reserved	0A9	ILO_TR	0E9
DCA02OU	02A	reserved	06A	reserved	0AA	BOG_TR	0EA
reserved	02B	reserved	06B	reserved	0AB	ECO_TR	0EB
DCA03FN	02C	reserved	06C	reserved	0AC	reserved	0EC
DCA03IN	02D	reserved	06D	reserved	0AD	reserved	0ED
DCA03OU	02E	reserved	06E	reserved	0AE	reserved	0EE
reserved	02F	reserved	06F	reserved	0AF	reserved	0EF
DBA04FN	030	reserved	070	reserved	0B0	reserved	0F0
DBA04IN	031	ACA00CR0	071	reserved	0B1	reserved	0F1
DBA04OU	032	ACA00CR1	072	reserved	0B2	reserved	0F2
reserved	033	ACA00CR2	073	reserved	0B3	reserved	0F3
DBA05FN	034	reserved	074	reserved	0B4	reserved	0F4
DBA05IN	035	ACA01CR0	075	reserved	0B5	reserved	0F5
DBA05OU	036	ACA01CR1	076	reserved	0B6	reserved	0F6
reserved	037	ACA01CR2	077	reserved	0B7	reserved	0F7
DCA06FN	038	reserved	078	reserved	0B8	reserved	0F8
DCA06IN	039	ACA02CR0	079	reserved	0B9	reserved	0F9
DCA06OU	03A	ACA02CR1	07A	reserved	0BA	reserved	0FA
reserved	03B	ACA02CR2	07B	reserved	0BB	reserved	0FB
DCA07FN	03C	reserved	07C	reserved	0BC	reserved	0FC
DCA07IN	03D	ACA03CR0	07D	reserved	0BD	reserved	0FD
DCA07OU	03E	ACA03CR1	07E	reserved	0BE	reserved	0FE
reserved	03F	ACA03CR2	07F	reserved	0BF	CPU_SCR	0FF

Figure 15B

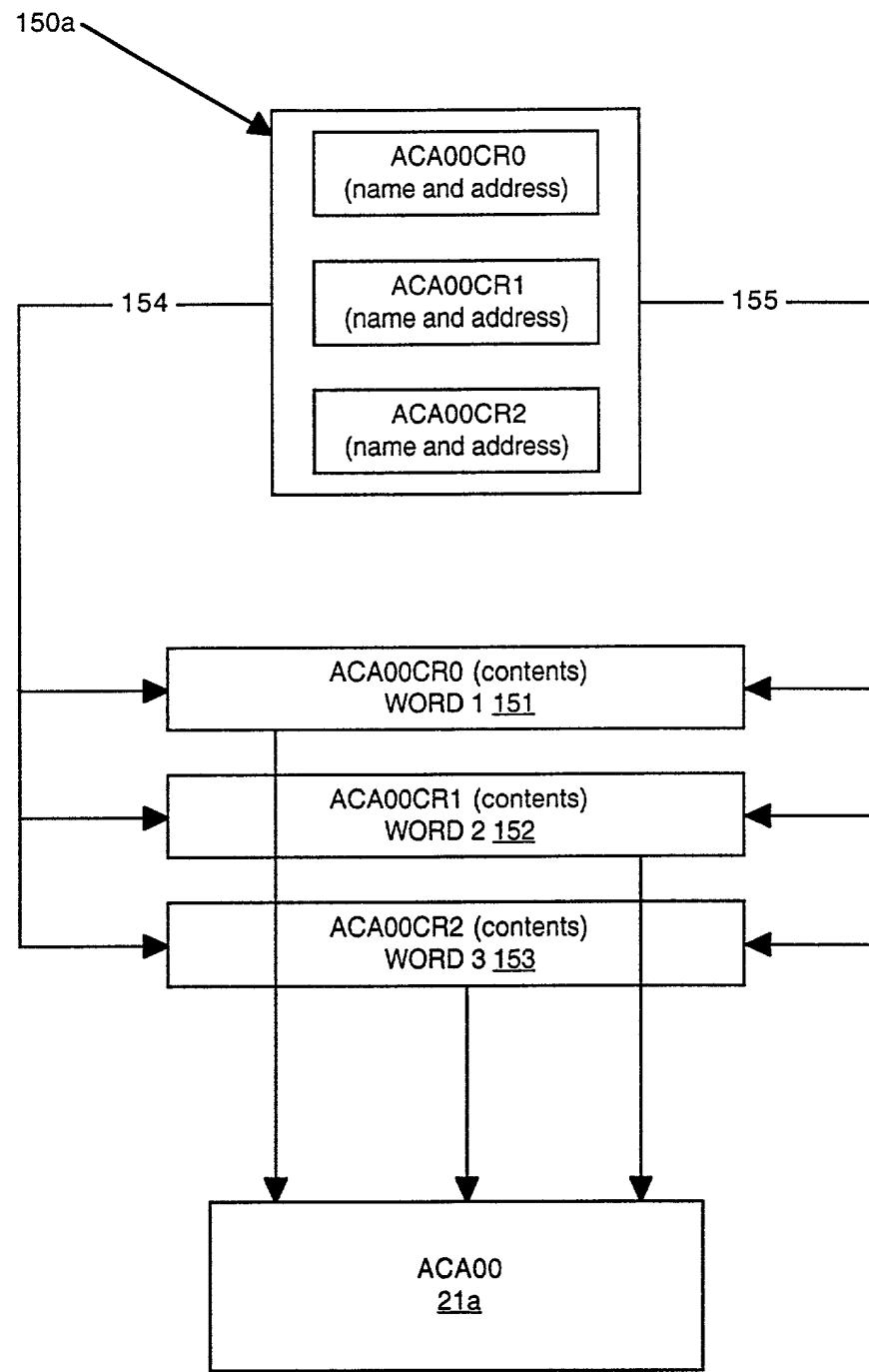


Figure 16

15 -> • Word 1 (LSB) F0 F1 F3 G N/C N/C N/C N/C (MSB)  
16 -> • Word 2 (LSB) P0 P1 P2 N0 N1 N2 CEN OS (MSB)  
17 -> • Word 3 (LSB) S0 S1 N/C N/C R0 R1 R2 R3 (MSB)

Figure 17

- Word 0 (LSB) A0 A1 A2 A3 A4 S PS OSZ (MSB)
- Word 1 (LSB) B0 B1 B2 B3 B4 I11 I12 IS3 (MSB)
- Word 2 (LSB) C0 C1 C2 C3 C4 AZ CS OS (MSB)
- Word 3 (LSB) S0 S1 IS21 IS22 DO1 DO2 R1 R2 (MSB)

Figure 18A

- Word 0 (LSB) A0 A1 A2 A3 A4 S PS OSZ (MSB)
- Word 1 (LSB) B0 B1 B2 B3 B4 I11 I12 I13 (MSB)
- Word 2 (LSB) C0 C1 C2 C3 C4 AZ CS OS (MSB)
- Word 3 (LSB) S0 S1 MB N/C DO1 DO2 R1 R2 (MSB)

Figure 18B

190

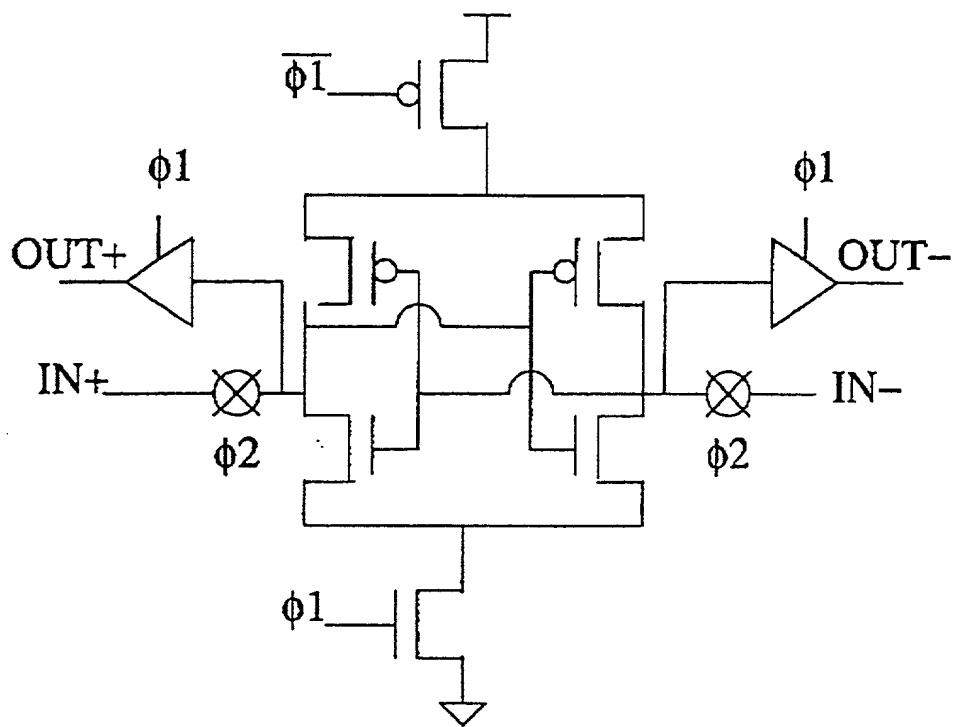


Figure 19

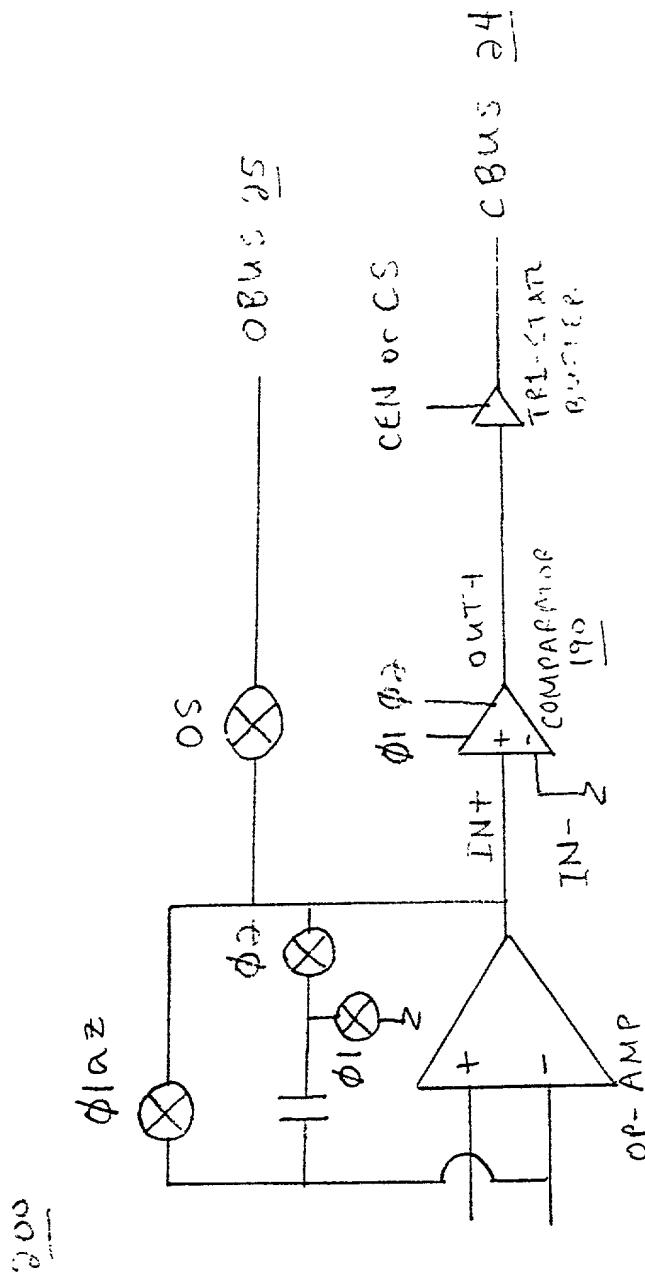


Figure 20

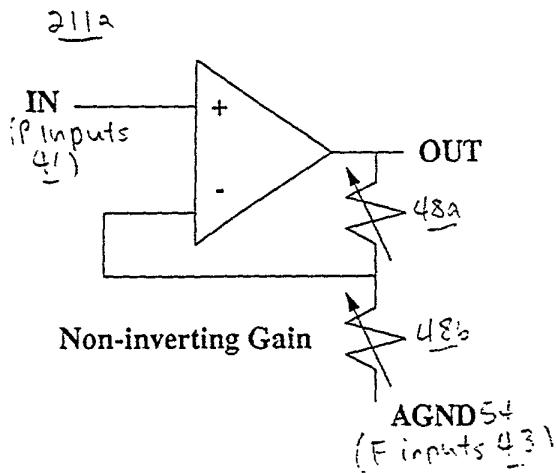


Figure 21A

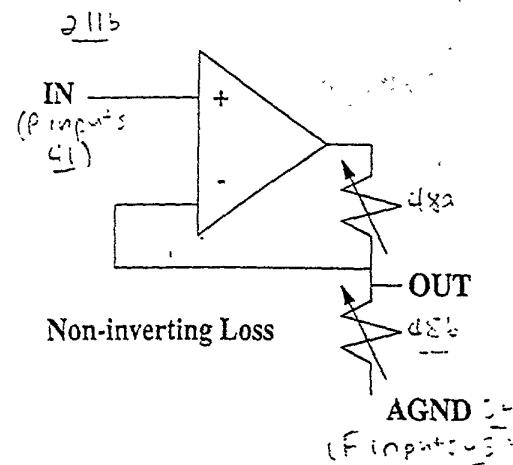


Figure 21B

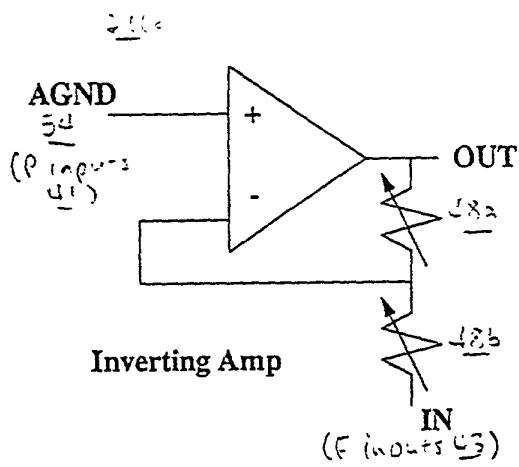


Figure 21C

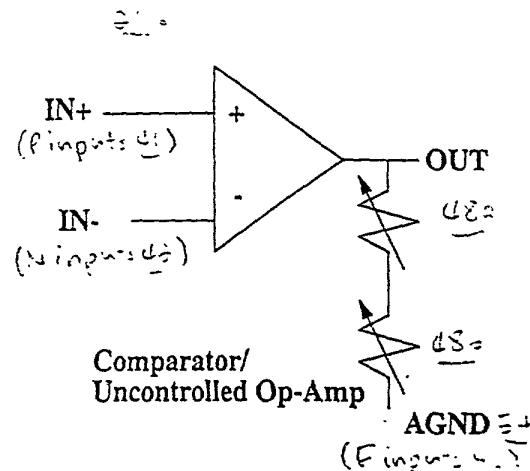


Figure 21D

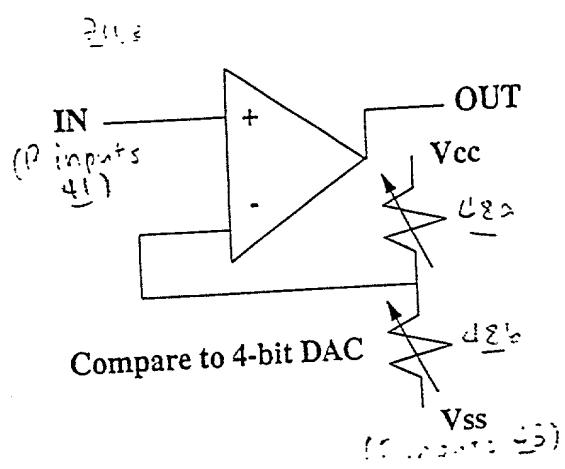


Figure 21E

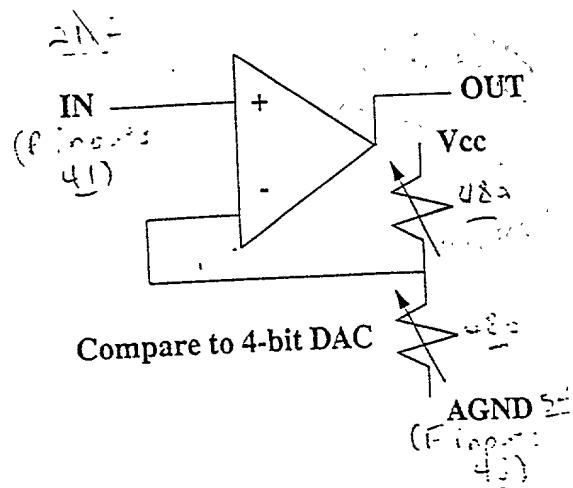


Figure 21F

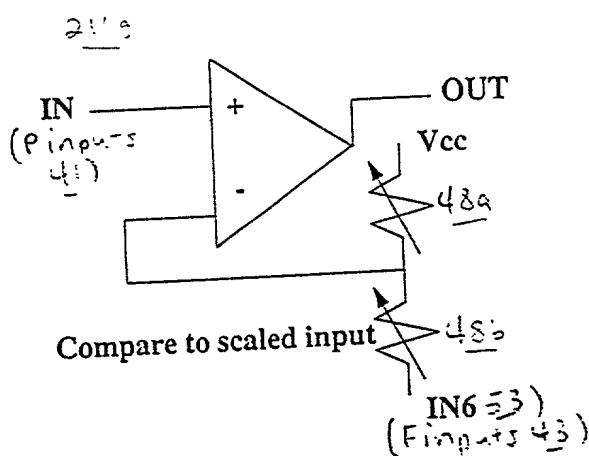


Figure 21G

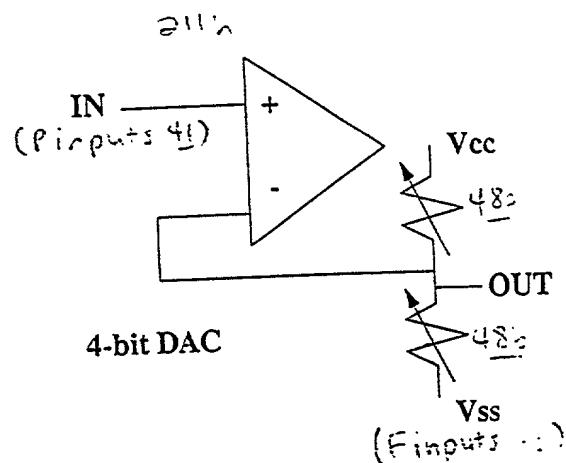


Figure 21H

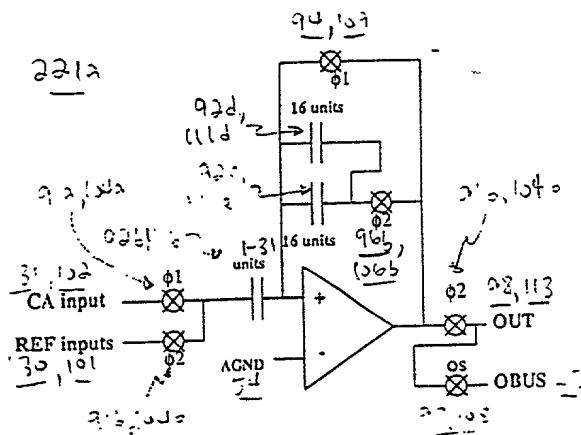


Figure 22A

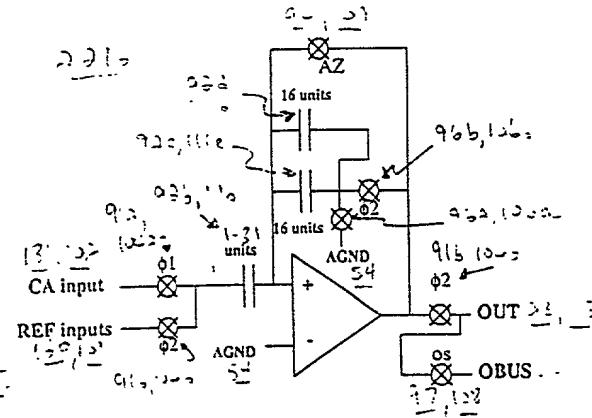


Figure 22B

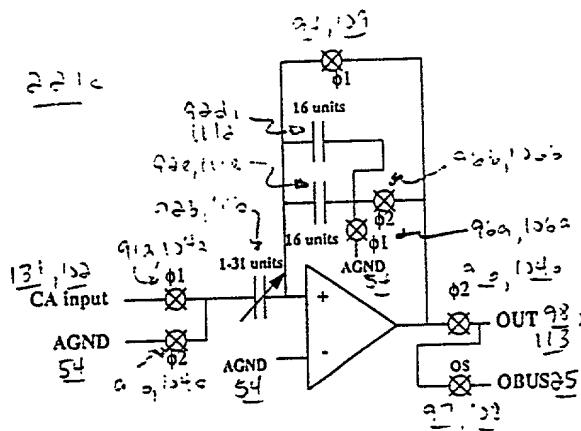


Figure 22C

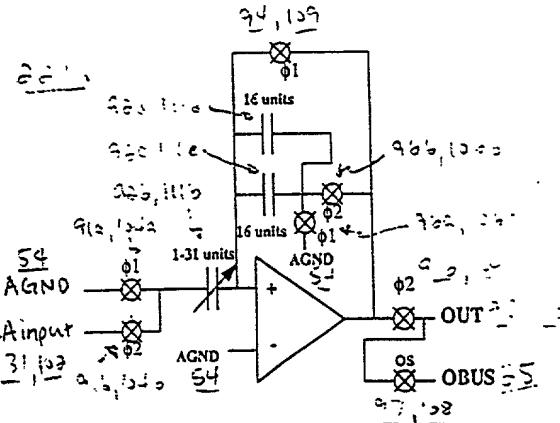


Figure 22D

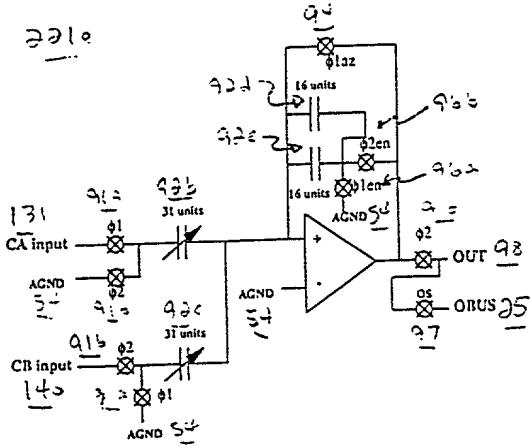


Figure 22E

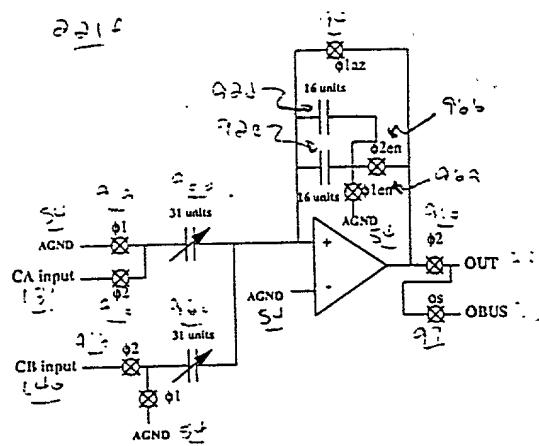


Figure 22F

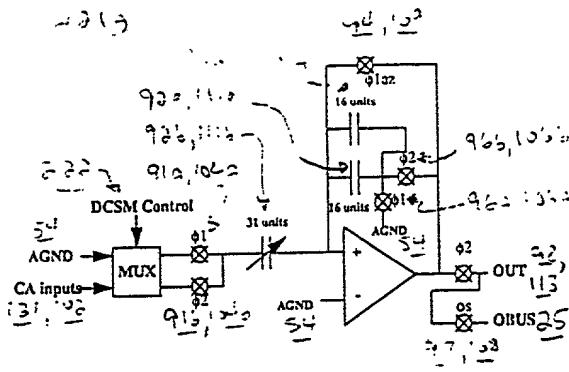


Figure 22G

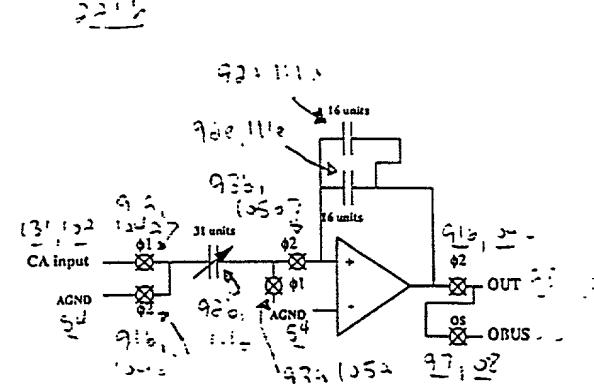


Figure 22H

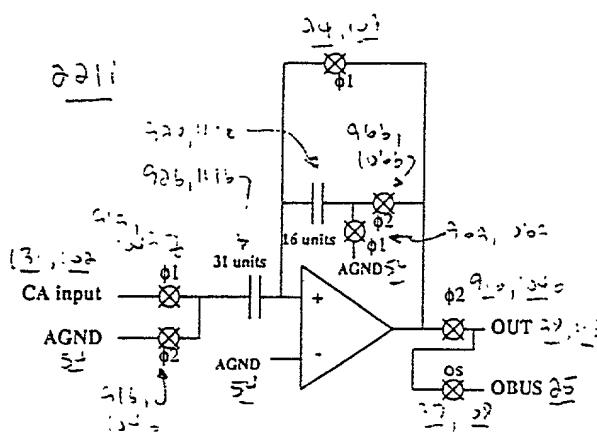


Figure 22I

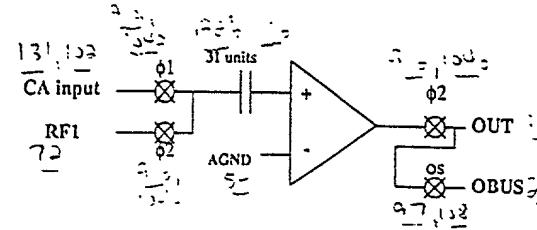


Figure 22J

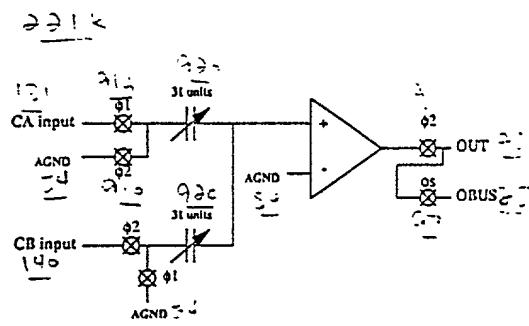


Figure 22K